

Attorney Docket No.: 01CON279P

In the Claims:

Claim 1 (currently amended): A structure comprising:

a semiconductor die having a source bond pad and a destination bond pad attached to a top surface of said semiconductor die;

a stud bump of bonding wire material, said stud bump of bonding wire material being situated on said destination bond pad;

a bonding wire having a first end and a second end, said first end of said bonding wire being ball bonded to said source bond pad and said second end of said bonding wire being stitch bonded directly to said stud bump of bonding wire material, said bonding wire having an inductance defined by at least a first selected dimension of said bonding wire, wherein said first selected dimension is measured along a first axis substantially perpendicular to said top surface of said semiconductor die.

Claim 2 (original): The structure of claim 1 wherein said source bond pad is a first terminal of an inductor and said destination bond pad is a second terminal of said inductor.

Claims 3-4 (canceled).

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Claim 5 (previously presented): The structure of claim 1 wherein said source bond pad is not used to establish an electrical connection between said semiconductor die and a substrate, and wherein said destination bond pad is not used to establish an electrical connection between said semiconductor die and a substrate.

Claim 6 (previously presented): The structure of claim 1 wherein said inductance is further defined by at least a second selected dimension of said bonding wire, wherein said second selected dimension is measured along a second axis substantially parallel to said top surface of said semiconductor die.

Claim 7 (previously presented): The structure of claim 1 wherein said inductance is increased by increasing said first selected dimension of said bonding wire, and wherein said inductance is decreased by decreasing said first selected dimension of said bonding wire.

Claim 8 (currently amended): A structure comprising:
a semiconductor die having a first semiconductor die bond pad, a second semiconductor die bond pad, and a third semiconductor die bond pad attached to a top surface of said semiconductor die;
a first conductor providing a connection between said first semiconductor die bond pad and said second semiconductor die bond pad;

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a stud bump of bonding wire material situated on said second semiconductor die bond pad;

a bonding wire having a first end and a second end, said first end of said bonding wire being ball bonded to said third semiconductor die bond pad and said second end of said bonding wire being stitch bonded directly to said stud bump of bonding wire material, said bonding wire having an inductance defined by at least a selected dimension of said bonding wire, wherein said selected dimension is measured along an axis substantially perpendicular to said top surface of said semiconductor die.

Claim 9 (canceled).

Claim 10 (original): The structure of claim 8 wherein said first semiconductor die bond pad is a first terminal of an inductor.

Claim 11 (original): The structure of claim 8 wherein said second semiconductor die bond pad is a destination bond pad and said third semiconductor die bond pad is a source bond pad.

Claim 12 (previously presented): The structure of claim 8 wherein said first, second, and third semiconductor die bond pads are not used to establish an electrical connection between said semiconductor die and a substrate.

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Claim 13 (original): The structure of claim 8 further comprising a second conductor provides a connection between said third semiconductor die bond pad a fourth semiconductor die bond pad.

Claim 14 (previously presented): The structure of claim 8 wherein said inductance is increased by increasing a said selected dimension of said bonding wire, and wherein said inductance is decreased by decreasing said selected dimension of said bonding wire.

Claim 15 (currently amended): A method for fabricating an inductor, said method comprising steps of:

fabricating a source bond pad and a destination bond pad on a top surface of a semiconductor die;

forming a stud bump of bonding wire material on said destination bond pad;

ball bonding a first end of a bonding wire to said source bond pad;

stitch bonding a second end of said bonding wire directly to said stud bump of bonding wire material;

said source bond pad being a first terminal of said inductor and said destination bond pad being a second terminal of said inductor, said inductor having an inductance defined by at least a first selected dimension of said bonding wire, wherein said first

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selected dimension is measured along a first axis substantially perpendicular to said top surface of said semiconductor die, wherein said step of forming said stud of bonding wire material on said destination bond pad is performed prior to said step of ball bonding said first end of said bonding wire to said source bond pad.

Claims 16-17 (canceled).

Claim 18 (previously presented): The method of claim 15 wherein said source bond pad is not used to establish an electrical connection between said semiconductor die and a substrate, and wherein said destination bond pad is not used to establish an electrical connection between said semiconductor die and a substrate.

Claim 19 (previously presented): The method of claim 15 wherein said inductance is further defined by at least a second selected dimension of said bonding wire, wherein said second selected dimension is measured along a second axis substantially parallel to said top surface of said semiconductor die.

Claim 20 (previously presented): The method of claim 15 wherein said inductance is increased by increasing a said first selected dimension of said bonding wire, and wherein said inductance is decreased by decreasing said first selected dimension of said bonding wire.